Notebook Series -- Notebooks by Edison and Other Experimenters
Disc Record Book No. 22
Notebook, N-17-06-15

This notebook was used by William W. Dinwiddie, Archie D. Hoffman and possibly other experimenters during June-July 1917 for notes on efforts to improve Edison disc records. There are numerous comments by Edison on the work performed. The entries pertain primarily to a sequence of experiments numbered from 1568E through 1656E. Included are tests of experimental lots of record blanks constructed by different methods or prepared with different ingredients. Some tests involve records printed with nickel faced molds. The entries generally consist of instructions by Dinwiddie or Hoffman describing the experimental records wanted, accompanied by evaluations of the test records based on durability, thickness, and edging. In one entry Edison criticizes Dinwiddie and others for their experiment planning, while in another he complains that his "instructions were not followed in this experiment." The front cover is labeled "Disc Record" and "22"; the back cover is labeled "22." The pages are unnumbered. Approximately 190 pages have been used.

1568-E

JA. 11. ✓

JK. 21. ✗

16%

16%

1568-E

Make 12 blanks made in regular way but pat pondub down by hand the old way we did to get air out,

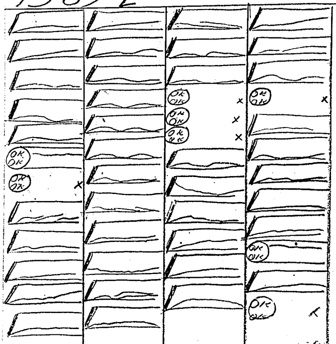
Send up to Varnish & print regular.

This patting was done too late in the process to do any good — after the packing print.

a)

6/15/17

1569-E



16%		25%	25%
8%		25%	25%

Average percentage 10.66

1569-E

Duplicate 1560-E but make 48 blanks & send up for varnishing & print as soon as possible

The felt used in this experiment was all cotton - The felt used in 1560-E was all wool -

The gray felt used in 1570 was part cotton and much poorer quality than the red felt used in 1560 -

6/15/17.

1570-E

OK OK	OK OK	
OK OK	OK OK	
	OK OK	
	OK OK	
OK OK	OK OK	
	OK OK	
	OK OK	
	OK OK	
OK OK	OK OK	
OK OK	OK OK	
OK OK		
OK OK		

2 blanks discarded for cribs.

66.6% Cam

66.6% Perfect

1570-E

Make 100 blanks with double thickness of gray felt in place of the thin rubber in the rubber press. send 24 prints to Millie

OK OK		OK OK	
OK OK	OK OK	OK OK	
OK OK		OK OK	
OK OK	OK OK	OK OK	
OK OK	OK OK	OK OK	
OK OK	OK OK	OK OK	
OK OK	OK OK	OK OK	
OK OK		OK OK	
OK OK	OK OK		
OK OK	OK OK	OK OK	
	OK OK		
OK OK	OK OK		
OK OK		OK OK	
91%	66%	75%	average percentage 73.3%
91%	66%	75%	

[5]

1571-E

6/18/17

Column 1: OK ×, OK ×, OK ×, OK ×, OK ×, OK ×, OK ×, OK ×, OK ×, OK ×, OK ×, OK ×

Column 2: OK ×, OK ×, OK ×, OK ×, OK ×, OK ×, OK ×, OK ×, OK ×, OK ×, OK ×, OK

100%	100%
100%	100%

All 6 went to 20. on drop test.

Surfaces good better than usual

1571-E

Make 24 blanks -
the thick rubber pad of the rubber press laid directly on the powder. Special pad with 1/16 holes drilled 1/4 apart all over 2 1/2" circle in center. A circle of coarse wire mesh laid on top of the rubber pad to let the air out.

1571-E Duplicate (?)

Column 1: OK ×, OK ×, OK ×, OK ×, OK ×, OK ×, OK ×, OK ×, OK ×

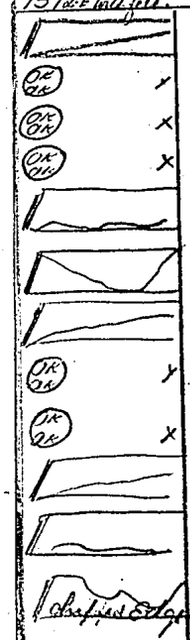
Column 2: OK ×, OK ×, OK ×, Jak (1) Bk (?), OK ×, OK ×, OK ×, OK ×, OK ×, OK ×, OK ×

75%	83%
75%	83%

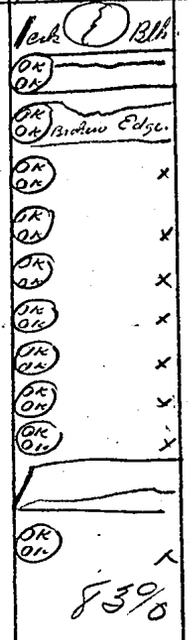
99-% (?) OK on blanks (?).
77.9% OK out of 290 blanks (?)

average percentage
79.1%

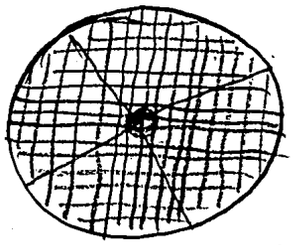
1572-E with felt.

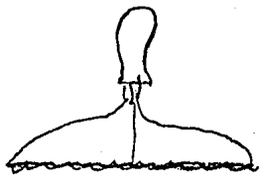


1572-E with thin rubber



1572-E





disc of wire mesh with handle used to spread the powder down before laying on the thin rubber — Made 24 blanks

24 made with thin rubber in packing press —

24 made with thin felt like 1560

Only made & finished 12 of each

Refer to 1575 and 1585

6/18/17.

1573-E

FERNS

Indigenous.

1573-E Refers 12 blocks that have been made [illegible] bows — Reg. schedule.

Seed up - stems [illegible] & fruit regular.

C113

6/18/17

1574-E

OK OK	x	OK OK	x
OK OK	x	OK OK	x
OK OK	x	OK OK	x
		OK OK	x
OK OK	x	OK OK	x
OK OK	x	OK OK	x
OK OK	x	OK OK	x
OK OK	x	OK OK	x
OK OK	x	OK OK	x
OK OK	x	OK OK	x
		OK OK	x
OK OK	x	OK OK	x
OK OK	x	OK OK	x
83%		100%	
83%		100%	
Average percentage			
91.6%			

1574-E

Make 24 blanks using flat rubber and one thickness red felt same as the felt used in 1566-E

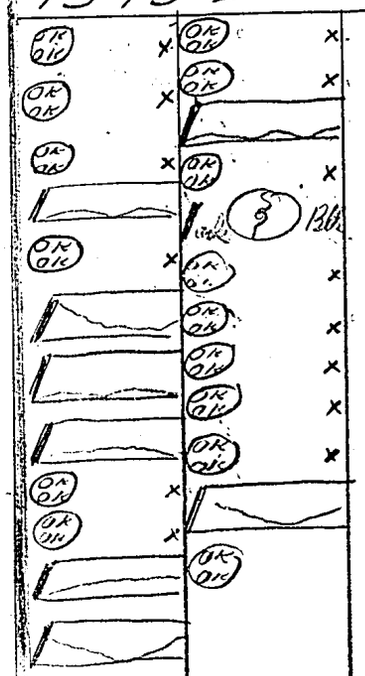
Bring the press up as slowly as possible and hold at full pressure about 10 seconds,

varnish and print regular.

Send to miller —

6/18/17

1575-E



41% 75%

41% 75

62.5%

1575-E

Capping machine with magnet removed and a flat plate 1/8 smaller diameter than the mould in place of magnet. – 1/4" holes drilled all over plate 1" apart – and a piece of close mesh heavy wire screwed on face of plate.

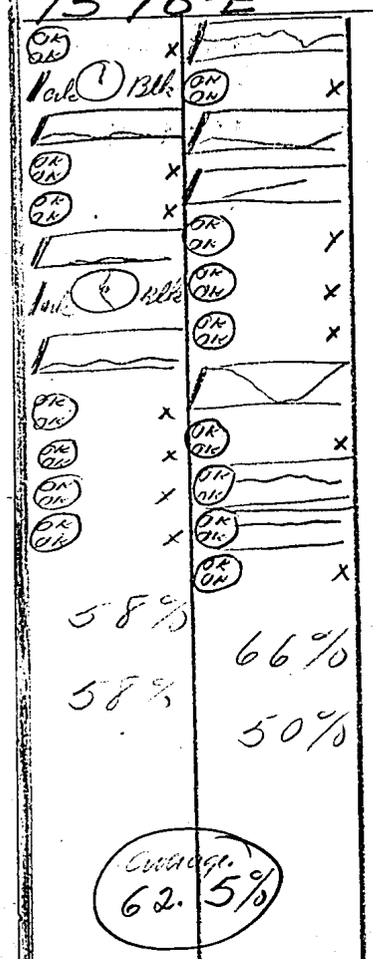
Operate same as hand tool in 1572-E – Make 24 blanks varnish and print regular send all to Miller –

use the thin rubber sheet in packing press

Refer to 1585

6/18/17

1576-E



1576-E

Same as 1575-E except that piece of soft thick felt from American Felt co is used on the wire ~~[illegible]~~ mesh of the plate, ~~use~~ the thin rubber sheet

6/18/17

1577-E

	OK OK ×
OK OK ×	
OK OK ×	OK OK ×
OK OK ×	OK OK ×
OK OK ×	OK OK ×
OK OK ×	OK OK ×
Total 13 lbs	OK OK ×
OK OK ×	FERNS
OK OK ×	OK OK ×
OK OK ×	OK OK ×
	OK OK ×
	Total 13 lbs

77.2%

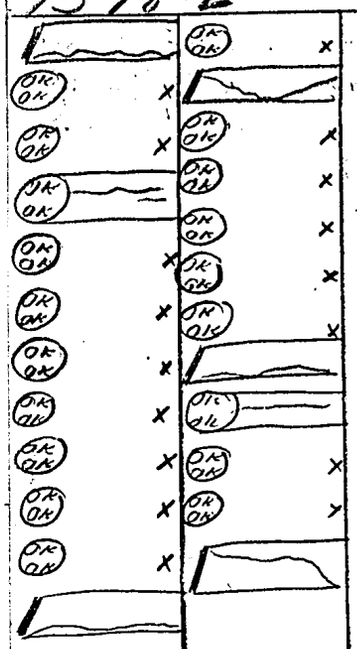
1577-E

Same as 1575-E except that red felt same as original 1560-E experiment is used on the wire mesh.

Use thin rubber sheet in packing press.

6/18/17.

1578-E



83%

75%

75%

75%

79.1%

1578-E

Same as 1575-E except that red felt (same as used in 1560-E) is laid on the powder and left on in the packing press.

C21J

6/18/17

1579-E

OK OK	OK OK
OK OK	OK OK
OK OK	OK OK
OK OK	OK OK
OK OK	OK OK
OK OK	OK OK
OK OK	OK OK
OK OK	OK OK
	OK OK
OK OK	OK OK
OK OK	OK OK
OK OK	OK OK
OK OK	OK OK
OK OK	
91%	91%
91%	91%

91.6

1579-E

Same as 1578-E except that special bevel loading ring is used to stop lights

bevel instead of ~~[illegible]~~ continued straight side of mouldy

6/19/17

1580-E		1580-E with felt	
58%	66%	75%	75%
58%	66%	75%	75%
62.5		75%	

1580-E

Center of soft rubber pad perforated same as 1571-E — Top plate of press counterbored opposite holes in rubber and coarse wire mesh laid in counterbore 5 - 1/4-inch holes drilled thru plate to wire mesh and groove cut across top surface of plate with cape chisel to vent.

Send first 3 Pounds to Miller

Did not work as expected - when cemented to top plate of press rubber pad seems to close — Worked like 1560 when felt was used with it.

1580-B

25%
25%

1560-E

American Felt Co. Soft felt

50%

50%

6/19/17

American Felt Co. Hard

100%

100%

93 5/8% Ok out of 123 Rounds

Edging Report

	O.K.	Re Edge.	Miss
1st Cut	68	33	7
2nd Cut	87	4	2
3rd Cut	4	0	0
	99	37	9

Totals 91.6%

1560-E white felt

Standard Felt Co

100%

100%

88 1/3% Ok out of 118 Rounds

Edging Report

	O.K.	Re Edge	Miss
1st Cut	69	39	5
2nd Cut	34	2	3
3rd Cut	1	0	1
	104	41	9

	Edged
1st Cut	113
2nd Cut	39
3rd Cut	2

92.0%

6/19/17

Green Felt.

100%

91%

6/20/17

1581-E

OK OK	x
OK OK	—
OK OK	x
OK OK	x
OK OK	x
OK OK	x

3 blanks. not printed due to cracks after baked.

50%

41%

1581-E

Same as 1571-E except that the wire mesh is attached to the plunger of the press.

1581-E-B Same as 81 except that holes in press plunger are stopped up with cardboard so that air does not escape thru the center — but only on sides — which makes it about the same as 1571-E

OK OK x	OK OK x
OK OK x	OK OK x
OK OK x	OK OK x
OK OK x	OK OK x
OK OK x	OK OK x
	OK OK x
	OK OK x
OK OK x	OK OK x
OK OK x	OK OK x
OK OK x	OK OK x
	OK OK x
	OK OK x
OK OK x	
OK OK x	

83% 100%

83% 100%

91.6

6/20/17

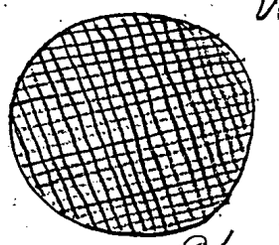
1582-E

OK OK	x	OK OK	x	Drop. Test
OK OK	x	OK OK	x	1. — 11
OK OK	x	OK OK	x	2. — 5
OK OK	x	OK OK	x	3. — 3
OK OK	x	OK OK	x	4. — 3
OK OK	x	OK OK	x	5. — 2
OK OK	x	OK OK	x	6. — 5
OK OK	x	OK OK	x	29 times
OK OK	x	OK OK	x	
		OK OK	x	
OK OK	x	OK OK	x	
OK OK	x	OK OK	x	
OK OK	x	OK OK	x	
91%		100%		
91%		100%		
		95.8		

1582-E

Rubber pad of packing press sawed with 1/8 saw cuts 1/2" c-c all over at right angles dividing the whole area into small squares - cuts 1/4 deep -

Use directly on the powder - Make 24 blanks - send to miller for test and inspection.



Edging Report

	Edged.	Oks.	Re Edged	Dis.
1st. Cut	363	307	40	16
2nd. Cut	40	26	4	10
3rd. Cut	4	2	0	2
		335		28

Total % 92.2%

77 ± % OK. out of 458 Blanks

(30)

6/20/17.

1583-E

OK OK	x	OK OK	x	
OK OK	x	OK OK	x	
OK OK	x	OK OK	x	
OK OK	x			
OK OK	x	OK OK	x	
OK OK	x	OK OK	x	
OK OK	x	OK OK	x	
		OK OK	x	
OK OK	x			
OK OK	x	OK OK	x	
OK OK	x	OK OK	x	
		OK OK	x	
OK OK	x			
		OK OK	x	
OK OK	x			
		OK OK	x	
100%		100%		
100%		100%		

Drop Test

1. — 4
2. — 4
3. — 2
4. — 2
5. — 2
6. — 1

15 times

1583-E

With same pad as 1582-E but use felt pad underneath, use the red felt of the original 1560 experiment

Make 24 blanks regular all thru — send to miller for test and inspection.

Edging Report

	Edgld.	OKs.	Re Edgl.	Dis.
1st. Cut	354	253	80	21
2nd Cut.	80.	40	21	19
3rd. Cut.	21	4	0	17
		297		57

Total % 84.7%

82 2/9% OK outs of 469 Boards.

6/20/17

1584-E

				Drop Test
OK OK	x	OK OK	x	
OK OK	x	OK OK	x	1. —— 20
OK OK	x	OK OK	x	2. —— 6
OK OK	x	OK OK	x	3. —— 1
OK OK	x	OK OK	x	4. —— 12
OK OK	x	OK OK	x	5. —— 20
OK OK	x	OK OK	x	6. —— 20
OK OK	x	OK OK	x	79 times
OK OK	x	OK OK	x	
OK OK	x	OK OK	x	
OK OK	x	OK OK	x	
OK OK	x	OK OK	x	
OK OK	x	OK OK	x	
100%		100%		
100%		100%		

1584-E

Same as 1583-E but use white felt of Standard felt Co –

Edging Report.

	Edged.	O.K.	Re Edged.	Rej's
1st Cut	22	6	13	3
2nd Cut	13	3	8	2
3rd Cut	8	4		4
		13		9

Total % 59%

[35]

6/20/17

1585-E

OK	×	OK	×	Drop test
OK	×	OK	×	1 — 5
OK	×	OK	×	2 — 18
OK	×	OK	×	3 — 5
OK	×	OK	×	4 — 20
OK	×	OK	×	5 — 20
OK	×	OK	×	6 — 7
OK	×	OK	×	75 times
OK	×	OK	×	
OK	×	OK	×	
OK	×	OK	×	
OK	×	OK	×	
OK	×	OK	×	
OK	×	OK	×	
OK	×	OK	×	
91%		91%		
91%		91%		
91.5%				

1585-E

Iron plate with grooves 1/4" and 3/8 lands - with coarse wire mesh fastened on press in place of rubber use thin felt - same as 1560-E make 48 blanks - send 24 to Miller

Edging Report.

	Edged	OKs	Re Edged.	Drivenels
1st Cut	19	8	9	2
2nd Cut	9	2	5	2
3rd Cut.	5	2	0	3
		12		7

Total % 63-1/3 %

Refer to 1572 and 1575

6/20/17

1586-E

OK OK	x	OK OK	x
OK OK	x		
OK OK	x		
OK OK	x	OK OK	x
OK OK	x	OK OK	x
OK OK	x	OK OK	x
OK OK	x	OK OK	x
OK OK	x		
OK OK	x	OK OK	
OK OK	x	OK OK	x
OK OK	x	OK OK	x
OK OK	x	OK OK	x
OK OK	x		
OK OK	x		

Drop Test

1 — 1
2 — 16
3 — 20
4 — 2
5 — 4
6 — 20
63 times

100% 75%

100% 66%

87.5%

1586-E

Same as 1585-E except use direct on the powder and no felt. Make 48 blanks - send 20 to Miller

Edging Report

	Edged	Oks.	Re Edged	Mis.
1st	20	4	14	2
2nd.	14	5	9	0
3rd.	9	6	0	3
		15		5

Total % 75 %

6/21/17.

1587-E

OK OK x	OK OK x	Drop Test
		1 — 3
OK OK x	OK OK x	2 — 20
OK OK x	OK OK x	3 — 13
OK OK x	OK OK x	4 — 10
	OK OK x	5 — 2
	OK OK x	6 — 1
	OK OK x	49 times
OK OK x	OK OK x	
OK OK x		
OK OK x	OK OK x	
Hole ⊕ 18½		
58%	75%	
58%	75%	
66.6		

1587-E

Same as 1581 except that special moulded pad is used with holes moulded in center — Use red felt of original 1560 Exp., make 24 blanks.

4.

6/21/17

1588-E

OK OK	x	OK OK	x	Drop Tests
OK OK	x	OK OK	x	1. — 3
		OK OK	x	2. — 19
OK OK	x	OK OK	x	3. — 3
OK OK	x	OK OK	x	4. — 1
OK OK	x	OK OK	x	5. — 8
OK OK	x	OK OK	x	6 — 1
				35 times
OK OK	x	OK OK	x	
OK OK	x	OK OK	x	
OK OK	x	OK OK	x	
OK OK	x	OK OK	x	
~~chipped edge~~		OK OK	x	
		OK OK	x	
OK OK	x			
83%		100%		
83%		100%		
91.6%				

1588-E

Same as 1580-E except that special moulded pad with holes moulded in center is used.

Make 24 blanks.

6/21/17

1589-E

OK OK	x	OK OK	x	Drop Test
OK OK	x	OK OK	x	1 — 9
		OK OK	x	2 — 2
OK OK	x	OK OK	x	3 — 11
OK OK	x	OK OK	x	4 — 5
OK OK	x	OK OK	x	5 — 7
OK OK	x	OK OK	x	6 — 6
				30 times
OK OK	x			
OK OK	x	OK OK	x	
OK OK	x	OK OK	x	
OK OK	x	OK OK	x	
OK OK	x			
OK OK	x			
100%		83%		
100%		83%		

91.6

1589-E

Same as 1582-E except use special pad with sponge rubber on top & and sponge rubber cut in one inch squares with circular saw. Make 48 blanks.

C45

6/21/17

1590-E

OK OK	x	OK OK	x	Dicfo test
OK OK	x	OK OK	x	1 — 5
OK OK	x	OK OK	x	2 — 20
OK OK	x	OK OK	x	3 — 5
OK OK	x	OK OK	x	4 — 3
OK OK	x	OK OK	x	5 — 2
OK OK Difficult Code		OK OK	x	6 — 2
OK OK	x	OK OK	x	37 times
OK OK	x	OK OK	x	
OK OK	x	OK OK	x	
Code 8 Blk		OK OK	x	
OK OK	x	OK OK	x	
OK OK	x	OK OK	x	
91%		100%		
83%		100%		
95.8%				

1590-E

Same as 1583-E except use same Rubber pad as 1589 – Make 48 blanks –

6/20/17

1560-E Standard Felt Co		1560-E American Felt Co. H	
OK OK ×	OK OK ×	OK OK ×	OK OK ×
OK OK ×	OK OK ×	OK OK ×	OK OK ×
OK OK ×	OK OK ×	OK OK ×	OK OK ×
OK OK ×	OK OK ×	OK OK ×	OK OK ×
OK OK ×	OK OK ×	OK OK ×	OK OK ×
OK OK ×	OK OK ×	OK OK ×	OK OK ×
OK OK ×	OK OK ×	OK OK ×	OK OK ×
OK OK ×	OK OK ×	OK OK ×	OK OK ×
OK OK ×	OK OK ×	OK OK ×	OK OK ×
—	OK OK ×	OK OK ×	OK OK ×
OK OK ×	—	—	OK OK ×
OK OK ×	OK OK ×	OK OK ×	OK OK ×
91%	91%	91%	100%
91%	91%	91%	100%
(91.5)		(95.8%)	

1560-E	1238-E Schedule
OK OK ×	OK OK ×
OK OK ×	—
OK OK ×	OK OK ×
OK OK ×	OK OK ×
OK OK ×	—
—	OK OK ×
OK OK ×	OK OK ×
OK OK ×	—
OK OK ×	OK OK ×
OK OK ×	—
OK OK ×	OK OK ×
OK OK ×	OK OK ×
91%	66%
91%	66%

6/21/17

1591-E — 1238-E Schedule

		Drop test	Caliper point
OK OK	OK OK	1 — 2	.213
OK OK	OK OK	2 — 10	.218.1
OK OK	OK OK	3 — 1	.211.1
OK OK		4 — 3	.209
OK OK		5 — 2	.216
OK OK	OK OK	6 — 3	.209
OK OK		21 times	
OK OK			
OK OK	OK OK		
OK OK			
OK OK			
91%	41%		
83%	41%		
66.6%			

Same as 1591-E only use the 1238-E Schedule

Why try? Experiment, experiment

30 8% Knots of 39 Pieces

54% OK out of 700 Pieces

89 ± % OK on blanks.

6/21/17

Edged 17 — 3 | Edging Report 10½ 13 — 2 — 15 | Re Edged 3 | Dis 1

1591-E Total % 88.2%

Same as 1582-E but use rubber pad with saw cuts that start 1¼ inches from edge then ½ inch spacing

Make 48 Blanks.

Send 24 to Millis for inspection & test

1591-E

		Drop Test	Caliper point
OK OK		1. — 5	.214
		2. — 7	.227.1
		3. — 4	.226
OK OK		4. — 1	.210.1
	OK OK	5. — 11	.213
		6. — 3	.213
	OK OK	31	
	OK OK		
	OK OK		
16%	33%		
16%	25%		
	25%		

Must be

Ball up

Get a better system of following through

Three factory

CSJ

6/21/17

1592-E

				Drop Test	Calipers point
OK	x	OK	x	1 — 4	.214
OK	x	OK	x	2 — 1	.218.1
OK	x	OK	x	3 — 1	.222
OK	x	OK	x	4 — 4	.214
OK	x	OK	x	5 — 1	.222
OK	x	OK	x	6 — 20	.215
OK	x	OK	x	3 times	
OK	x	OK	x		
OK	x	OK	x		
OK	x	OK	x		
OK	x	OK	x		
OK	x				
OK	x				
100%		100%			
100%		100%			

1592-E

Same as 1591-E except was perforated sheet rubber disc 1/8" thick on top of powder.

Mate 48 Blankers

Send 24 to Miller for inspection & test

Edging Report.

	Edged.	Oks.	Re Edged.	Dis
1st Cut	50	42	5	3
2nd Cut	5	4		1
		46		4

Total % 92%

6/21/17

91.3% OK on Blanks.
94.6% OK. out of 405 Rounds.

6/21/17

70.8% OK out of 4380
90.4% OK on Blanks

6/26/17

78.8% OK out of 1369 Blanks
83.2% OK out of 1757 Rounds 6/28/17

See also after 1602

6/21/17

1593-E — 1238-E Schedules

				Drop test	Calipers points
OK OK	x	OK OK	x	1. — 8	.218.1
OK OK	x	OK OK	x	2. — 1	.211
OK OK	x	OK OK	x	3. — 6	.211
OK OK	x			4. — 18	.209.1
				5. — 20	.212.1
OK OK	x	OK OK		6. — 16	.207
OK OK	x	OK OK	x		
OK OK	x	OK OK	x		
OK OK	x	OK OK	x		
OK OK	x	OK OK	x		
OK OK	x	OK OK	x		
OK OK	x	OK OK	x		
OK OK	x	OK OK	x		
91%		91%			
91%		83%			
91.6%					

6 9 times

Same as 1593-E only on the 1238-E Schedule

76 1/2% OK out of 1206 Rec.
86 1/2% OK Blanks.

6/22/17

1593-E

same as 1560 except use Standard Felt Company - white felt -

Send 24 to Muffler

				Drop test	Calipers points
		OK OK	x		
		OK OK	x		
OK OK	x	OK OK	x	1 — 20	.202
OK OK	x	OK OK	x	2 — 3	.209.1
OK OK	x	OK OK	x	3 — 20	.208
OK OK	x	Ash Blk.		4 — 15	.214
OK OK	x			5 — 20	.213
OK OK	x	OK OK	x	6 — 20	.211
OK OK	x			9.8 times	
OK OK	x	OK OK	x		
OK OK	x	OK OK	x		
OK OK	x	OK OK	x		
OK OK	x				
91%		75%			
91%		76%			
83.3%					

Edging Report.

	Edged.	Ok's.	Re Edged	Dis.
1st Cut	39	34	4	1
2nd Cut	4	2		2
		36		3

Total % 92.3%

84 2/3% out of 46 Records.
78 3/4% OK on Blanks
82 3/4% OK out of 130 Blanks.

CSS.

6/21/17

1594-E

OK OK	x	OK OK	x	Drop test		Calipers point	
				1.	—	20	212.1
				2.	—	1	.194
OK OK	x			3.	—	2	.208
		OK OK	x	4.	—	20	.203
				5.	—	20	.208
OK OK	x			6.	—	20	.215
OK OK	x					8 3 times	
OK OK	x	OK OK	x				
				Edgering Report		80.2% OK	
OK OK	x	OK OK	x				
OK OK	x						
OK OK	x						
66%		33%					
66%		33%					

1594-E

Special moulded rubber pad with 1/8 holes moulded in center over area of a 2 1/2 inch circle, Pad cemented on press in regular way - using device to vent the holes same as 1580-E thru top plate of press -

make 48 blanks -

Send 24 to Miller

6/21/17

1595-E

	OK	×	Drop Test		Caliper Point
OK	×		1.	16	.214.1
			2.	20	.221.1
			3.	20	.226
OK	×		4.	2	.222.1
OK	×		5.	9	.211
OK	×	OK	6.	13	213.1
OK	×	OK		8 of times	
		OK			
OK	×	OK			
OK	×				
OK	×				
OK	×				
OK	×	OK			
75%		50%			
75%		50%			
62.5%					

Edgering Report 79.4%

1595-E

Same as 1594-E except use Standard ~~felt~~ cow felt laid on powder

Make 48 blankets

Send 24 to Miller

6/22/17

1596-E

OK OK	x	OK OK	x	Drop's Test		Balfour Point	
OK OK	x	OK OK	x	1 —	1	.222.1	
OK OK	x	OK OK	x	2 —	2	.213	
OK OK	x	OK OK	x	3 —	3	.203	
OK OK	x	OK OK	x	4 —	1	.207	
		OK OK	x	5 —	2	.212	
OK OK	x	OK OK	x	6 —	2	.215	
OK OK	x	OK OK	x		11 times		
OK OK	x	OK OK	x				
OK OK	x	OK OK	x	Edgeing Report			
OK OK	x	OK OK	x	Total % Ok. 77.2%			
		OK OK	x				
		OK OK	x				
Chipped Edge	x	OK OK	x				
OK OK	x						
53%		100%					
83%		100%					
91.6%							

1596-E

57 lbs wood flour
43 lbs chalk
2 lbs lampblack
12 lbs Rosin
50 lbs alcohol
Make two driers full
Mould (1584-E) rubber pad sawed into 1/2-inch squares to 1 1/4 of edge
press blanks on 1261 schedule
varnish and print regular
Complete report on discards all them
Send 2/ to Miller

85.1% Ok. on Blanks.
91.5% Ok out of 936 Boards

(61)

6/22/17

1597-E 36 blanks in Lot.

OK	x	OK	x	OK	x	Drop test	
OK	x	OK	x	OK	x	1 — 20	
OK	x					2 — 20	
		OK	x	OK	x	3 — 5	
OK	x					4 — 3	
		OK	x	OK	x	5 — 4	
OK	x	OK	x	OK	x	6 — 16	
						68	
OK	x	OK	x	OK	x	6 blanks	
OK	x	OK	x			7 discarded for being broken.	
OK	x	OK	x			Calipers points	
OK	x	OK	x			.215.1	
OK	x	OK	x			.213	
OK	x					.216.1	
OK	x	OK	x			223.1	
OK	x	OK	x			.219	
		OK	x			.214	

80.5

All that were printed were 100% OK defects in blanks

1597-E

Mould with rubber pad sawed into 1/2 inch squares to 1 1/4 inch of edge. Use white felt of standard felt to 1/4 inch thick laid on powder.

Press on 1261 schedule but leave steam on 7 minutes instead of 6 minutes.

Make 48 blanks

Varnish and print regular.

Send to Miller.

Report on Edging

Send 24 to Miller

If use unpeeled blanks prints scores 60

100% — 40% — Blanks were cheap.

89 2/3% OK's out of 26 Records.

	Edging	Report	
	edged.	OK.	Re edge
1st Cut	24	15	6
2nd Cut	6	4	0
		19	

Total 79 1/3%

6/22/17

1598-E

OK	x	OK	x	Drop Test
OK	x	OK	x	1. — 1
				2. — 2
OK	x			3. — 4
		OK	x	4. — 1
		OK	x	5. — 9
OK	x	OK	x	6. — 10
				27 times
OK	x	OK	x	
				Califico Joints
		OK	x	232
		OK	x	222.1
OK	x	OK	x	218.1
OK	x	OK	x	213
OK	x	OK	x	228.1
OK	x	OK	x	223.1

79.1

1598-E

Same as 1597, except kept steam on 8 minutes.

Send 24 to Miller

Edging Report

	Edged	Oks	Re Edged	Nos
1st Cut	32	19	11	2
2nd Cut	11	9		2
		28		4

Total % 87.5%

85% Ok. out of 40 Pieces.

[65]

6/22/17

1599-E Nickel Model Experiment
Every body Love a Jazz Band Nickel Model
5451-C-5-12
90th print) At start fair inwards gets
good. Hs Cracksler lit Music!

60th print start OK. Surface good no cracks.
275 print Very Soft Surface

6/22/17

1600-E Nickel Mold Experiment
Meditation # 3762-B-9-44
3rd print Good Even Surface.
40th print Good Surface no cracks.
246 print Very Soft some flaws and lines

6/22/17

1601-E Nickel Mental Experiment-
American Roots any boy 5414-C388x

20th print big maps near Music-
surface fair, only 1 cracked in Music
considerably in-
75 print Surface Very good.
150 print Soft Surface.
283 print Surface Soft.

1602-E Nickel Molded Experiment.
Everybody loves a Good Bowl.
5437-C-8-1
20 th print Surface Good for Checkers at start
40 th print Surface Good. for circles at start
80 th print Surface Soft.
313 th print Surface Soft.

6/25/17.

1592 E Oil Limits

OK OK	X	OK OK	X
OK OK	X	OK OK	X
OK OK	X	OK OK	X
OK OK	X	OK OK	X
OK OK	X	OK OK	X
OK OK	X	OK OK	X
OK OK	X	OK OK	X
OK OK	X	OK OK	X
Moratorium Sp		OK OK	X
Moratorium Sp		OK OK	X
OK OK	X	OK OK	X
OK OK	X	OK OK	X
OK OK	X	OK OK	X
OK OK	X	OK OK	X
OK OK	X	OK OK	X
OK OK	X	OK OK	X
OK OK	X	OK OK	X
OK OK	X	OK OK	X
83%	100%	91%	
83%	100%	91%	

91.6%

(75)

6/22/17

1591-E Duplicate

OK OK	x	OK OK	x		Disp test		Caliper points
OK OK	x	OK OK	x	1.	8		.223
OK OK	x	OK OK	x	2.	6		.230
OK OK	x	OK OK	x	3.	3		.223
OK OK	x	OK OK	x	4.	20		.220.1
OK OK	x			5.	20		.213
OK OK	x	OK OK	x	6	20		.220.1
OK OK	x	OK OK	x		77 times		
OK OK	x	OK OK	x				
OK OK	x	OK OK	x				
OK OK	x	OK OK	x				
OK OK	x	OK OK	x				
OK OK	x	OK OK	x				
OK OK	x	OK OK	x				
100%		91%					
100%		91%					
95.8							

6/26/17

1603-E

OK OK	x	OK OK	x	Drop Test		Caliper point	
OK OK	x			1.	—	19	.225.1
				2.	—	3	.216.1
OK OK	x	OK OK	x	3.	—	20	214
OK OK	x	OK OK	x	4	—	1	221
		OK OK	x	5.	—	2	210.1
OK OK	x	OK OK	x	6.	—	2.0	220.1
OK OK	x					6.5 times	
OK OK	x						
		OK OK	x	Edgeing Report 84 2/3			
OK OK	x	OK OK	x				
OK OK	x	OK OK	x				
OK OK	x	OK OK	x				
OK OK	x	OK OK	x				
OK OK	x						
100%		83%					
100%		83%					
91.6%							

1603-E

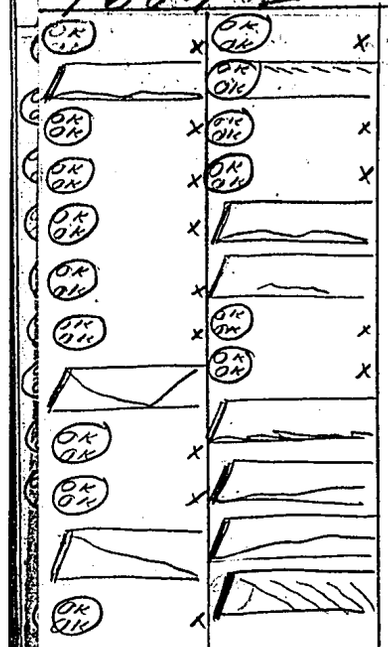
Make about 2,000 lbs powder reg. 1505-E to which is added about 2% cotton floc as it is put in the mill.

Mould with rubber pad sawed into small squares to within 1 1/4 inch of edge - use Standard Felt Co's white felt laid on powder - 1261 schedule on press - varnish and print regular - Send 24 records to Miller.

90 2/3% on blanks
86 2/3% OK out of 1744 Pounds

6/25/17

1604-E



Drop Test	Calipers
1. — 1	.205.1
2. — 1	.203
3. — 2	.209.1
4 — 9	.203.1
5. — 20	.22.0
6. — 2	1931
35 times	

Edging Report 88.5%

75% 50%

75% 41%

62.5

1604-E Moulded rubber pad with ½" rings and cross cuts to vent air — use Standard Felt Co white felt laid on powder —
Make 500 — send 24 to Miller —

92% OK on blanks
73± % OK out of 461 Rounds

CDJ

6/25/17

1605-E

OK OK	OK OK	Drop Test
OK OK		1. — 2
	OK OK	2. — 5
OK OK	OK OK	3. — 5
	OK OK	4. — 8
	OK OK	5. — 9
OK OK	OK OK	6. — 2
OK OK	OK OK	31 turie
OK OK	OK OK	Edgeing report 53.3%
OK OK		
OK OK	OK OK	
OK OK	OK OK	1605-E 1334-E
OK OK	OK OK	78% OK out of 264 Records
OK OK	OK OK	100% on Blanks
OK OK		Edgeing Report. 29.3%
91%	83%	
91%	83%	
87.5		

This is not 1605-E
it is a slight modification
of 1620-E

1605-E

Same pad as 1604-E but
use 1/8" perforated sheet rubber
laid on powder —
Marked 500 send 24
to Miller

Production Report
72.1% OK out of 596 Records.
88.4% OK on Blanks
80.5% OK out of 5130 Records
80% OK on Blanks.
88.2% OK out of 13,855
88.2% OK on Blanks
71.4% OK out of 1004 Records.
92.2% OK on Blanks.
69.1% OK out of 243 Records.
82% OK on Blanks -

6/25/17

1606-E

OK OK	OK OK	Drop Test
OK OK		1. — 5
OK OK	OK OK	2. — 20
		3. — 1
OK OK	OK OK	4. — 1
OK OK	OK OK	5. — 4
		6. 20
OK OK	OK OK	51 times
OK OK	OK OK	
	OK OK	Edgering Report 100% OK
	OK OK	" " 97.2 OK
OK OK	OK OK	
OK OK	OK OK	
OK OK	OK OK	on only 14 records
OK OK		
91%	83%	
75%	83%	
87.5		

1606-E

Same as 1604-E except that pad is used directly on the powder –
Send 24 to mill
Make 84

C05J

6/26/17

1607-E

		Drop Test	Caliper points
OK	OK	1. — 2	.201.1
	OK	2. — 2	.209
	OK	3. — 4	.220
	OK	4. — 20	.204.1
	OK	5. — 8	.230
OK	OK	6. — 13	.230
OK	OK	49	
		Edging Report 93 2/3	
OK			
OK	OK	1607-E-1334-E	
OK		85.1% OK out of 378	
OK	OK	83% OK on Blanks	
58%	66%		
50%	50%		
65.5%			

1607-E
Same as 1605 except that Rubber pad is 5/8 inch thick -
Make 500 Blanks -
Send 24 to Miller -

6/27/17
77.1% OK out of 2,837 Records
92.2% OK on Blanks

6/28/17
76.8% OK out of 448 Records
86% OK on Blanks

84.3% OK out of 3939 Records
92.2% OK on Blanks

84% OK out of 2714 Records
84% OK on Blanks

84.8% OK out of 7331
91.3% OK on Blanks

1607 E.G. A.R.
77% OK out of 3140
82.5% OK on Blanks
74.1% OK out of 1373 Records
95.9% OK on Blanks

6/28/17

1608-E

		Drop Test	Caliper points
OK OK ×	OK OK ×		
OK OK ×	OK OK ×	1— 12	.230
OK OK ×	OK OK ×	2.— 20	217.1
OK OK ×	OK OK ×	3.— 20	.228
OK OK ×	OK OK ×	4.— 2	199.1
OK OK ×	OK OK ×	5— 19	.215
OK OK ×	OK OK ×	6.	
OK OK ×	OK ×	74 times	
OK OK ×	OK ×		
OK OK ×	×	Edging Report 78%	
OK OK ×	OK OK ×		
OK OK ×	OK OK ×		
100%	91%		
100%	83%		

95.8%

1608-E
Make 500 blanks using the Hard felt of Amer. Felt Co. with the ½ inch pad with circular grooves moulded in. (1604-E)
Send 24 ~~blanks~~ to Miller—

90.2% Ok records out 461
87.3% Ok on blanks.

70% all thru

6/28/17

1609-E

OK OK	×	OK OK	×	Drop Test	Caliper points	
OK OK	×	OK OK	×	1. — 2	.213	
OK OK	×	OK OK	×	2. — 20	217.1	
OK OK	×	OK OK	×	3. — 9	.212	
OK OK	×	OK OK	×	4. — 10	.223	
OK OK	×	OK OK	×	5. — 20	.215	
OK OK	×	OK OK	×	6. — 20	.213	
OK OK	×	OK OK	×	81 times		
OK OK	×	OK OK	×			
OK OK	×	OK OK	×	Edging Report 53.1% on 49 records		
OK OK	×	OK OK	×			
OK OK	×	OK OK	×			
OK OK	×	OK OK	×			
OK OK	×					
100%		100%				
100%		100%				
100%						

1609 E

Make 72 blanks using same pad as 1606-E but laid on powder like the thin pad and not cemented to press.
Send 24 to Smith —

90.1% OK out of 54 records
97.9% OK on blanks

6/28/17

1610-E

			Drop Test	Calipers points
OK OK	OK OK	×		
OK OK	OK OK	×	1. — 20	.224
OK OK	OK OK	×	2. — 20	.225
OK OK	OK OK	×	3 — 20	.217.1
OK OK	OK OK	×	4. — 20	.2141
OK OK	OK OK	×	5. — 20	.223
OK OK	OK OK	×	6. — 20	.217
OK OK	OK OK	×	120 times	
OK OK	OK OK	×	1610-E After	
OK OK	OK OK	×	OK OK ×	OK OK ×
OK OK	OK OK	×	OK OK ×	OK OK ×
OK OK	OK OK	×	OK OK ×	OK OK ×
OK OK	OK OK	×	OK OK ×	OK OK ×
			OK OK ×	OK OK ×
100%	100%		OK OK ×	OK OK ×
			OK OK ×	OK OK ×
100%	100%		OK OK ×	OK OK ×
			OK OK ×	OK OK ×
			OK OK ×	OK OK ×
			OK OK ×	OK OK ×
100%			OK OK ×	OK OK ×
			OK OK ×	OK OK ×
			OK OK ×	OK OK ×
			OK OK ×	OK OK ×
			OK OK ×	OK OK ×
			100%	100%
			100%	100%

1610 E

Use 1572-E tool in loading powder from hopper (before) stribing off, press like 1605-E
Make 72 blanks –
Send 24 records to Miller.

Edging Report 52 2/3

Instructions were not followed in this experiment — tool was used after removing from hopper as in the original 1572-E

See record after 1617-E

Done over again June 28-17

Drop Test.
1. — 20
2. — 20
3. — 20
4. — 20
5. — 20
6. — 20
120

Before means after - not before

91 ÷ % Okay of 755 Records.
88 ÷ Okay blanks.

6/29/17

1611-E

				Drop Test	Calipers of ink
OK OK	x				
OK OK	x	OK OK	x	1. —	.220
OK OK	x	OK OK	x	2. —	.223.1
OK OK	x	OK OK	x	3. —	.213.1
OK OK	x	OK OK	x	4. —	.215.1
OK OK	x	OK OK	x	5. —	.212.1
OK OK	x	OK OK	x	6. —	.330.1
OK OK	x	OK OK	x		
OK OK	x	OK OK	x	Edgering Report 81.1%	
OK OK	x	OK OK	x	-1163 Records-	
OK OK	x	OK OK	x		
OK OK	x	OK OK	x		
OK OK	x	OK OK	x		
100%		91%			
100%		91%			

95.8%

1611-E with W.G. Rosin
Make one drier 1505-E powder
Mould 1605-E —
Send 24 records to Miller.

93.3% [illegible] 1160 [illegible]
90.6% [illegible]

See 1612 letter with E Rosin except blanks

6/28/17

1612-E

				Drop test	Calipers point
OK OK	x	OK OK	x		
OK OK	x	OK OK	x	1. — 1	.218.1
OK OK	x	OK OK	x	2. — 20	.216
Chipped Edge		Signature		3. — 6	.225.1
OK OK	x	OK OK	x	4. — 11	.216
OK OK	x	OK OK	x	5. — 5	.207.1
OK OK	x	OK OK	x	6. — 5	.210.1
OK OK	x	OK OK	x	38 times	
OK OK	x	OK OK	x		
OK OK	x	OK OK	x	Edging Report 88%	
OK OK	x	OK OK	x		
OK OK	x	OK OK	x		
OK OK	x	OK OK	x		
		OK OK	x		
91%		91%			
91%		91%			
91.6%					

1612-E
Make one drier 1505E Powder with E Rosin mould 1605-E
Send 24 records to Miller.

89.2% Ok and of 68 Records.
70.5% Ok and Clauses.

6/28/17

1613-E

OK	x	OK	x	Drop Test : Caliper Point
OK	x	OK	x	1. — 4 .211.1
OK	x	OK	x	2. — 5 .214.1
OK	x	OK	x	3. — 1 .207
OK	x	OK	x	4. — 4 .207.1
OK	x	OK	x	5. — 11 .206
OK	x	OK	x	6. — 2.0 .208.1
		OK	x	45 times
Machined Center		OK	x	
OK	x	OK	x	
OK	x	OK	x	Edging Report 58%
OK	x	OK	x	Edging Report 81.1/2% Good
OK	x	OK	x	
OK	x			
91%		100%		
91%		100%		
95.8				

1613-E

Duplicate 1513-E
Moulds as 1605-E
Send 24 records to milling -

1613-E 6/30/17

OK	x
OK	x
OK	x
OK	x
OK	x

6/29/17

1614-E

OK OK	x	OK OK	x	Drop Test:		Calipes Point	
OK OK	x	OK OK	x	1. — 3		.234.1	
		OK OK	x	2. — 15		.225	
OK OK	x	OK OK	x	3. — 20		.231.1	
OK OK	x	OK OK	x	4. — 20		.229	
OK OK	x	OK OK	x	5. — 14		.230	
OK OK	x	OK OK	x	6. — 29		.217.1	
				81 times			
OK OK	x	OK OK	x				
OK OK	x	OK OK	x	Edge Report			
OK OK	x	OK OK	x		Reqd	O.K.	Rejd	Dim
OK OK	x	OK OK	x	1st Cut	30	46	33	1
OK OK	x	OK OK	x	2nd Cut	30	12	7	11
OK OK	x	OK OK	x	3rd Cut	7	3		4
						61		16
OK OK	x			Total %		76 2/3 % Good		
OK OK	x							
100 %		100 %						
100 %		100 %						

100%

1614-E
Duplicate 1514-E (1/2 norway wood)
Moulded as 1605-E
Send 24 records to Miller

[14]

6/27/17

1615-E

	OK OK	OK OK	OK OK
OK OK	OK OK	OK OK	OK OK
	OK OK		OK OK
OK OK	Blisters		OK OK
OK OK	OK OK	OK OK	OK OK
OK OK	OK OK		OK OK
	OK OK	OK OK	OK OK
		OK OK	OK OK
	OK OK	OK OK	OK OK
OK OK	OK OK	OK OK	OK OK
	OK OK		OK OK
FERNS	OK OK	OK OK	FERNS
OK OK chipped edge		OK OK	OK OK
50%	83%	66%	91%
41%	83%	66%	91%

72.9

1615-E

Mr. Kircher –

Take 48 blanks 1605-E and varnish and bake twice same as 1531-E

Send all 48 to Miller then Send Miller report on edging.

6/28/11

1616-E

OK OK	OK OK	OK OK	Drop Test
OK OK	OK OK	OK OK	1 — 20
OK OK	OK OK	OK OK	2 — 20
OK OK	OK OK	OK OK	3 — 20
	OK OK	OK OK	4 — 20
	OK OK	OK OK	5 — 18
OK OK	OK OK	OK OK	6 — 1
OK OK	OK OK	OK OK	99 times
OK OK	OK OK	OK OK	Caliper points
OK OK	OK OK	OK OK	.208
OK OK	OK OK	OK OK	.216
OK OK	OK OK	OK OK	.223.1
OK OK	OK OK	OK OK	.215
OK OK	OK OK	OK OK	.213
91%	100%	100%	.218
91%	100%	100%	

97.2%

1616-E

Duplicate of 1597 except that perforated thin rubber sheet is used instead of felt.
Make 48
Send all to Miller.
Only received 36 records.

Did you load them like 1610 E with preliminary circular screen pm
It has about same drop test —
NO!!
WHO!

[105]

6/23/17

1617-E

OK OK	x	OK OK	x	Drop Test.		Cubic Points	
OK OK	x	OK OK	x	1.	— 20		209.1
		OK OK	x	2.	— 4		205.1
		OK OK	x	3.	— 20		212
OK OK	x	OK OK	x	4.	— 8		205.1
OK OK	x	OK OK	x	5.	— 10		217.1
OK OK	x	OK OK	x	6.	— 2		207
OK OK	x	OK OK	x		6 4 times		
OK OK	x						
OK OK	x	OK OK	x				
OK OK	x	OK OK	x				
OK OK	x	OK OK	x				

100%

83%

91%

83%

91.6

1617-E

Make 24 records and send to Miller regular 1605 schedule except regular Leave steam on Record Press 14 minutes, Blow steam out after 2 minutes, after 5 more minutes, and again after 5 more minutes.

Inspection Report
82.3% OK out of 85 records
89.2% OK on Blows
89.1% OK out of 775 Records.
95.4% O.K. on Blows

6/29/17

1610-E

Before

Shop Test

1.	20
2.	20
3.	20
4.	20
5.	20
6.	9
	109 times

100%	100%
100%	91%

1610-E carried out correctly — (1e) ~~before & not after~~ - striking off in loading hopper

This was done very differently from what was intended - Instead of using the tool as in 1572 by pressing the tool down several times - it was pressed down firmly only once - Probably the cause of all of the records being wedge shaped. This error was not made in the 1610 where the operation was performed after striking off mould in the hopper -

Dunwoodie -

1610 should be duplicated as it originally was (1e) wrongly tool used after strike off -

E

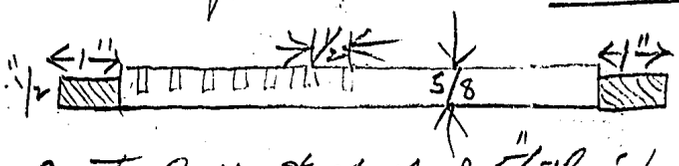
6/29/17

1618-E

8 5/8

8 5/8

1618-E Special Pad 48 Blankets



Central part of pad 5/8" thick
sawed into squares 3/8 deep
saw cuts 1 1/2" C-C and 1/8" wide saw.
Use 1/8 inch thick perforated
sheet rubber pad.
Send all to mills.

CMJ

Drop Test.

1.	.073	20
2.	.061	20
3.	.045	18
4.	.052	20
5.	.073	6
6.	.061	4
7.	.063	20
8.	.059	20
9.	.058	1
10.	.065	20
11.	.055	20
12.	.057	18

187 times

for 6 - average 9 3/4 drops that

1619-E regular 1605-E

Take 12 records discarded for being dished too much — and make form complete drop tests to see if weakness may be caused by the same thing.

Records dished more than .054 are discarded.

Evidently dishing not cause of weakness

~~16195~~

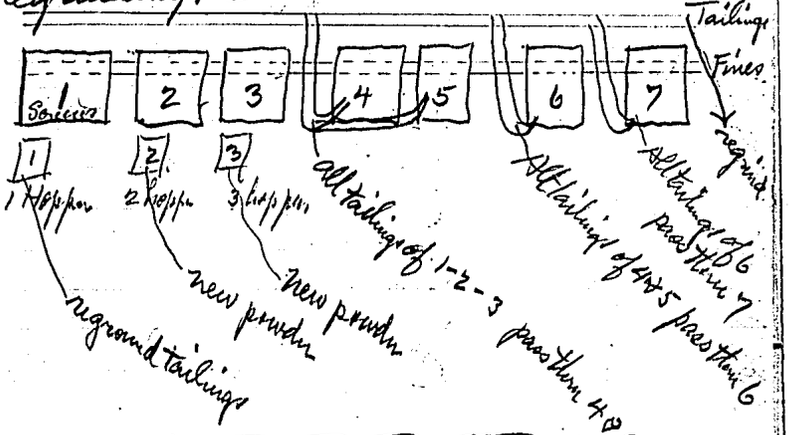
Use 157ZE Tool in loading powder from Hopper, + after

[115]

1620-E 1605-E		1620-E-1610-E	
OK OK	x		
OK OK	x	OK OK	x
OK OK	x		
OK OK	x	OK OK	x
OK OK	x		
OK OK	x		
OK OK	x		
OK OK	x		
66%			
66%		16%	
		16%.	

1620-E

Run screens for 5 hours with reground tailings in no. 1 hopper and regrind all tailings so that no tailings are run thru the screens again without regrinding. —



send 48 to Miller for inspection and drop test; moulded 1605-E

Send 48 to Miller for inspection and drop test moulded 1610E

Send 200 Blanks moulded on 1610 E to Kirchner for special tests to compare surface

7/2/17

1620-E-1605-E

VENEER

Knots (8) Blk

chipped Edg

Drop Test

1. — 20
2. — 8
3. — 7
4. — 20
5. — 20
6. — 75

Edgering Report 89 2/3 %

66%	100%	91%	Inspection Report 82 2/3% Okant of 457
66%	91%	91%	78 2/3 on Planks.

86.1

7/2/17

1620-E-1610-E

Knots (8) Blk

Drop Test

1. — 3
2. — 2
3. — 6
4 — 6
5. — 8
6. — 8

33

Edgering Report 50 2/3 %

50%	50%	58%
50%	50%	58%

1621-E

Drop Test

1 — 20
2 — 4
3 — 18
4 — 20
5 — 20
6 — 10

92 times

7/17

86% Ok out of 738 Records
94 3/5 on Hands

1621-E-B

85 2/5 Ok out of 210 Records
92 2 Ok on Hands

Edging Report
82 2/5

91% 100% Inspection
82 2/5 Ok out of 210 Records
91% 100% 92 2/5 Ok on Hands

75.8

1621-E
Make 5 driers full
Same as 1505-E mixture but 1/2 Norway wood
Dried like 1508-E — short schedule —
Ground and screened like 1620-E
Moulded like 1610-E using wire disc before striking off in hopper.
Press on 1261 Schedule but leave steam on 7 minutes instead of 6 minutes.
Varnish and print regular
Send 48 Records to Mills in Building 7 — also complete report on discards thru the factory.

1621-E-B WRONG WAY WITH TOOL 7/3/17.

Drop Test.

1 — 19
2 — 17
3 — 20
4 — 3
5 — 3
6 — 20

82 times

Edging Report
84 1/5

Crk — Blk

75%
70%

100%
91%

83%
83%

83.6%

C121

7/3/17

1622-E Ok 1615-E Rust

proper way

Drop test

1. — 1
2. — 20
3. — 4
4. — 20
5. — 1
6. — 2

48 times

75%

1622-E

Duplicate of 1610-E

Sent 36 bricks to Miller

(in after striking off)

1610-E-B Done Wrong Way 7/3/17

Drop test

1 — 20
2 — 20
3 — 1
4 — 7
5 — 20
6 — 20

88 times

77.7

7/7/17.

1623-E

OK OK	x	OK OK	x	Rhoto test	Calipers points
OK OK	x	OK OK	x	1 — 1	.221
OK OK	x	OK OK	x	2 — 2	.223.1
OK OK	x	OK OK	x	3 — 2	.224
OK OK	x	OK OK	x	4 — 1	.208.1
OK OK	x	OK OK	x	5 — 4	.226
OK OK	x	OK OK	x	6 — 3	.225.1
OK OK	x			13 times	
OK OK	x	OK OK	x		
OK OK	x	OK OK	x	Edgeing Report	
OK OK	x	OK OK	x		
OK OK	x	OK OK	x	Total % OK. 42 1/2 %	
OK OK	x				
OK OK	x				
100%		91%			
100%		91%			

958

1623-E —
Make 5 drivers full- I Plain
Same mixture as 1505-E. Use 1/2 Norway wood. Dried regular.
Grind and screen like 1620-E
Mould with wire disc operated after strike off by extra man.
Use 1/2 inch rubber pad with concentric ridge in poaching press. Use 1/8 inch perforated sheet rubber.
1261 Schedule ~~[illegible]~~
Varnish and point regular
Send 24 records to Miller.

7/7/17

1624-E

OK OK	x	OK OK	x	
OK OK	x	chipping edge		
OK OK	x	OK OK	x	
OK OK	x	OK OK	x	
OK OK	x	OK OK	x	
OK OK	x	OK OK	x	
OK OK	x	OK OK	x	
OK OK	x	OK OK	x	
OK OK	x	OK OK	x	
OK OK	x	OK OK	x	
OK OK	x	OK OK	x	
OK OK	x	OK OK	x	
OK OK	x	OK OK	x	
OK OK	x	OK OK	x	
OK OK	x			

95.8%

Drop Test		Calipico Points
1.	2	.230
2.	6	.223.1
3.	4	.235
4.	3	.221
5.	2	.225.1
6.	3	.225

20 times

Edging Report. 60 6
12 oz Blend

1624-E
Make 5 drivers full.
Same as 1623-E except use
E. Rosin.

7/7/17

1625-E

OK OK	x	OK OK	x
Produce Edge		OK OK	x
OK OK	x	OK OK	x
OK OK	x	OK OK	x
OK OK	x	OK OK	x
OK OK	x	OK OK	x
OK OK	x	OK OK	x
Produce Edge		OK OK	x
OK OK	x	OK OK	x
OK OK	x	OK OK	x
OK OK	x	OK OK	x
OK OK	x	OK OK	x
OK OK	x	OK OK	x
OK OK	x	OK OK	x

91.6

Drop Test Caliper points

1. —	2	.233.1
2. —	3	.233.1
3. —	8	.228
4. —	3	.225
5. —	7	.239.1
6. —	1	.225.1

18 times

Edging Report .685%

1625-E
Make 5 drives full
Same as 1623-E except use
W.Co. Rosin.

7/7/17

1626-E

OK	x	OK	x	Drop Test. Calipers
OK	x	OK	x	1. — 3 .203
OK	x	OK	x	2. — 5 .199.1
OK	x	OK	x	3. — 4 .213.1
OK	x	OK	x	4. — 2 .207
OK	x	OK	x	5. — 3 .210
OK	x	OK	x	6. — 1 .203
				18 times
OK	x	OK	x	
OK	x	OK	x	Edgeing Report.
OK	x	OK	x	
OK	x	OK	x	total % OK 37%
OK	x	OK	x	
OK	x			
OK	x			
100%		100%		
91%		100%		
100%				

1626-E
500 (1623-E blanks except hold steam on press 7 min instead of 6 min as in 12 (6) schedule)
O. Send 48 to mill. and full report from factory.

7/7/17.

1627-E

OK OK		OK OK	x	Drop Test		Calipers	Points
			x	1.	3		.209.1
OK OK	x	OK OK	x	2.	1.		.210.1
OK OK	x	OK OK	x	3.	4.		.224.1
OK OK	x	OK OK	x	4.	6		.226
OK OK	x	OK OK	x	5.	1		.225
		OK OK	x	6.	3		.218.
OK OK	x	OK OK	x		18 time		
OK OK	x	OK OK	x				
OK OK	x	OK OK	x	Edgeing Report			
			x	EDGED	OK.	REEDGED	DIS
OK OK	x	OK OK	x	1st	194	56	76	62
OK OK	x	OK OK	x	2nd	76	17	21	38.
OK OK	x			3rd	21	3		18
OK OK	x					76		118
OK OK	x				Total % 39 2			

100%

Inspection Report
77 2% OK out of 234 Rounds
57% OK on Blanks

1627-E same as 1626-E except use 1624 blanks —
24 Rounds delivered to Smiley

7/7/17

1628-E

OK	x	OK	x	Drop Test	Calipoints	
OK	x	OK	x	1. — 1	233.1	
OK	x	OK	x	2. — 3	.224	
				3. — 4	.235.1	
OK	x	OK	x	4. — 2	.231.1	
OK	x	OK	x	5. — 2	.218	
OK	x	OK	x	6. — 2	.221.1	
OK	x	OK	x	14 times		
OK	x	OK	x			
OK	x	~~Chipped~~		Inspection Report.		
OK	x	OK	x	73% OK out of 326 Rounds		
OK	x	~~Chipped~~		82+% OK on Blanks		
OK	x	OK	x			

91.6

1628-E same as 1626-E except use 1625 Blanks.

24 Rounds delivered to Smillie

7/5/17

1630-E-1610-E

	OK
	OK
OK	OK
OK	OK
OK	OK
OK	OK
	OK
OK	OK
OK	OK
	OK
OK	OK
	OK
OK	OK

70.8%

Drop Test

1. — 20
2. — 4
3 — 10
4 — 12
5 — 17
6. — 11

64 times

7/5/17

1630-E-1605-E

OK	OK
OK	Tank Dbl
OK	OK
OK	OK
OK	OK
OK	OK
OK	OK
OK	OK
OK	OK
OK	
OK	OK
OK	
OK	OK
OK	OK
OK	OK
OK	OK

91.5

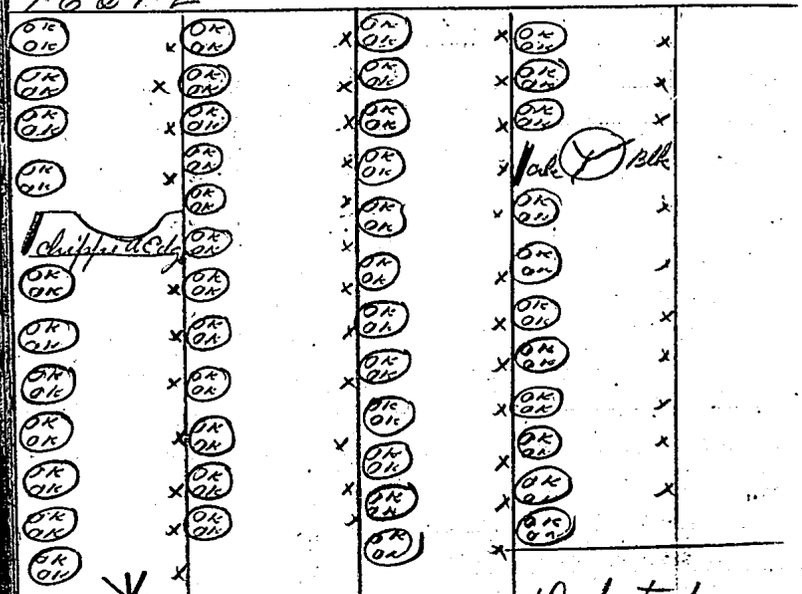
Drop Test

1. — 20
2. — 20
3. — 18
4. — 7
5 — 20
6. — 10

95 times

7/7/17

1629-E



95.88

Edging Report

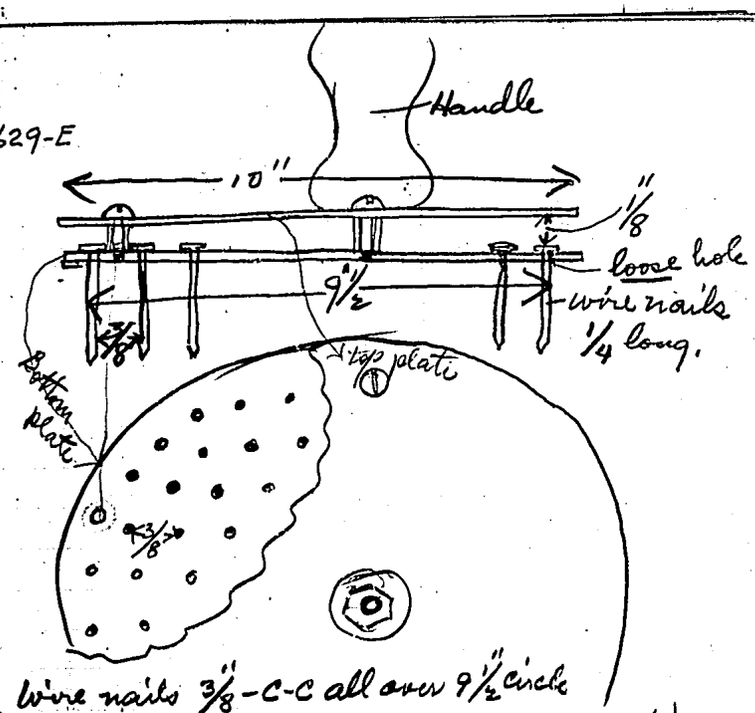
total % 7 4/9

Inspection Report
93 % Ok out of 74 Records
85 % Ok on Blanks.

Drop test
1 — 1
2 — 8
3 — 7
4 — 11
5 — 2
6 — 4
33 times

Caliper points	
.229	.234
.229.1	.225.1
227.1	.217.1

1629-E



Wire nails 3/8"-C-C all over 9 1/2" circle

Use same as 1572 tool in packing the powder in place of the wire mesh

Make 100 blanks using this tool after strike off in loading hopper

~~Send to~~ varnish & paint regular send 48 to mill.

If the trouble is electrostatic this tool should work better than wire mesh.

7/7/17

1630-E

OK OK	OK OK	OK OK VENEER	OK OK
OK OK	OK OK	OK OK	OK OK
OK OK	OK OK	OK OK	MOISTURE Spot
OK OK	OK OK	OK OK	OK OK
OK OK	OK OK	OK OK	OK OK
OK OK	OK OK	OK OK	OK OK
	OK OK	OK OK	OK OK
	OK OK	OK OK	OK OK
	OK OK	OK OK	OK OK
OK OK	OK OK	OK OK	OK OK
OK OK	OK OK	OK OK	OK OK
OK OK	OK OK	OK OK	OK OK
OK OK	OK OK	OK OK	OK OK
OK OK	OK OK	OK OK	OK OK

937

Edging Report

Total % OK. 58 3/8

Drop Test	
1. —	20
2. —	20
3. —	3
4. —	20
5. —	1
6. —	20
	8 4 trim

1630-E

Mr Kridler —

Get a quart of varnish from Hoffman - without any filler and varnish the edges and center of about 200 blanks immediately before the regular coat of varnish is applied. Send 4 rounds to Miller for inspection and drop test.

Have careful record of edge inspection and center hole chips to be entered in Mr E's Book.

C141J

7/7/17

1631-E

OK x	OK x	OK x	OK x
[drawn bar]	OK x	OK y	OK y
OK x	OK x	OK x	OK x
OK x	OK x	OK x	OK x
OK x	OK x	OK x	OK x
OK x	OK x	OK x	OK x
OK x	OK x	OK x	OK x
OK x	OK chipped Edge x	OK x	OK x
OK x	OK x	OK y	OK x
OK y	OK x	OK x	
OK x	OK x	OK x	
OK x	OK y		
91%	100%	100%	
91%	91%	100%	

Drop Test

1. — 8
2. — 15
3. — 20
4. — 20
5. — 4
6. — 3

7-0 times

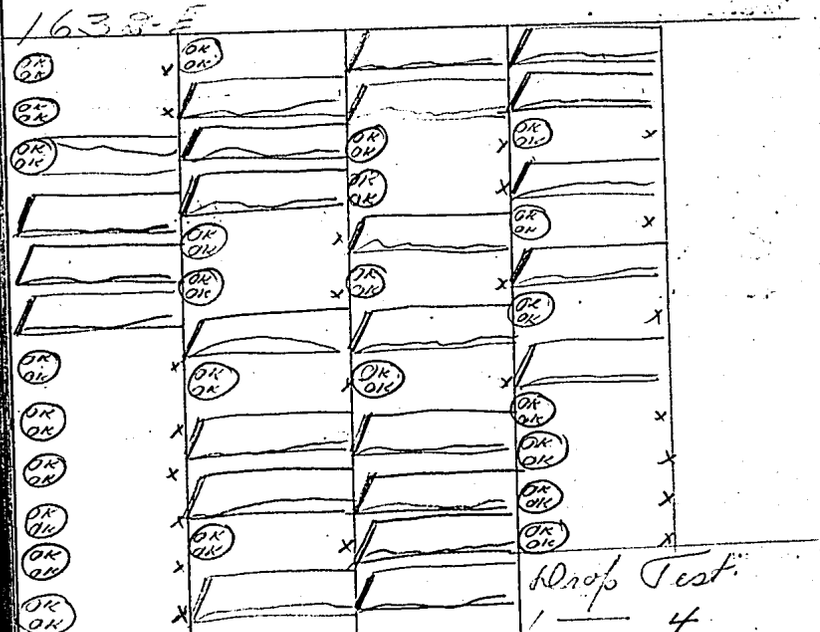
1631-E

Same as 1630-E but varnish blanks all over instead of edges and center only.

Make 48 - Send to Miller for inspection - After inspection have them edged and record made in Mr 25 Book —

7/15/17

1638-E



52%

Drop Test

1	4
2	4
3	4
4	3
5	1
6	3
	19 times

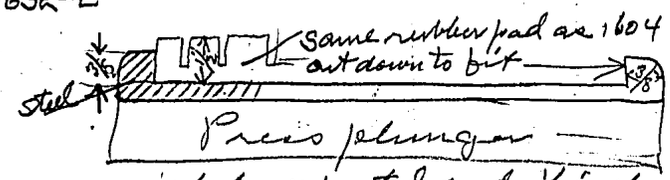
Edging Report

	Edged	OK.	Reedged	Dis.
1st Cut	79	53	24	2
2nd "	24	13	9	2
3rd "	9	5		4
		71		8

90%

Calipers	Points
.233.1	.224.1
.214	.213
.204.1	.200

1632-E



use moulded perforated pad. 1/8 inch
Make 200 blanks with same powder as 1620-E – varnish and print regular
Send 48 records to Miller
Report on edge inspection as soon as possible.

7/11/17

1633-E

OK OK ×	OK OK ×	OK OK ×
OK OK ×	OK OK ×	OK OK ×
[sketch]	OK OK ×	OK OK ×
OK OK ×	OK OK ×	OK OK ×
OK OK ×	OK OK ×	OK OK ×
OK OK ×	OK OK ×	OK OK ×
OK OK ×	OK OK ×	OK OK ×
OK OK ×	OK OK ×	OK OK ×
OK OK ×	OK OK ×	Clipped Edge
OK OK	OK OK ×	OK OK ×
OK OK ×	OK OK ×	OK OK
OK OK ×	OK OK ×	OK OK ×
	OK OK ×	

Drop Test.

1. — 20
2. — 6
3. — 6
4. — 3
5. — 9
6. — 1

35

Calipers points

.216.1	.221.1
.225.1	.214
.227.1	.207

91.6

1633-E —

Same as 1620-E except use special moulded 1/8-inch pad —

Only received 56 [illegible], [illegible] sample 12 [illegible] [illegible] around [illegible]

Edging Report. 58 [illegible]
2493 [illegible] [illegible]

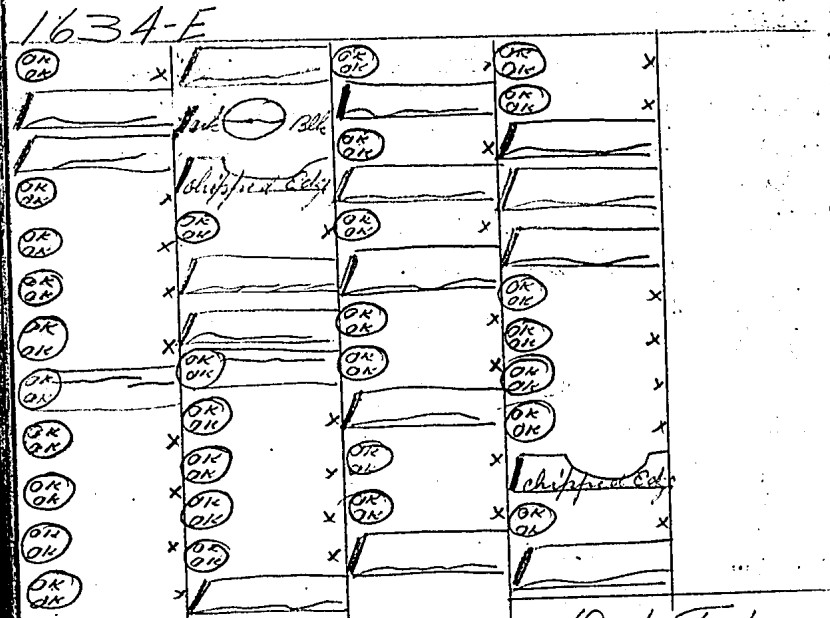
Edging Report

	Edged	OK	Re Edge	Disc
1st Cut	10	5	5	
2nd Cut	5	2	3	
3rd Cut	3	2		1
		9		1

90% OK.

7/12/17

1634-E



62.5

Drop Test

1. — 5
2. — 3
3. — 1
4. — 4
5. — 1
6. — 1

15 times

Calipers	Points
205.2	220
210.1	222
211.1	226

1634-E

Same as 1632-E except that the steel ring is turned out 1/8 inch more and rubber is 1/4 inch larger in diameter. ring is 1/4 inch wide instead of 3/8-inch wide.

Make 200 blanks

Send 48 records to Miller.

Report on edge inspection as soon as possible.

Edgewing Report. 87 [illegible]

7/12/17

1635-E

43.7%

Hoop Test

1. — 5
2. — 3/8
3. — 8
4. — 1
5. — 4
6. — 11

30 times

Calipers	Point
.221.1	.228.1
.212	.220
.221.1	.230.1

1635-E

Same as 1635-E except that ring is turned out 1 in. larger in diam. leaving it only 1/16 in. wide also 32 holes are drilled in the ring opposite the slots holding rubber. Holes are 3/16 in. in diam. and are 1/8 in. from the top edge of the ring.

Edgewood Point .793"
" " .625"

1636-E

Blank mould ring with 1/16 radius fillet to prevent flange from breaking off.

Special round edge bottom plate to fit. Put in service July 12-17

August 10 found to be O.K.

Started to make this standard

1637-E

OK OK	X	OK OK	X	OK OK	X	
OK OK	X	OK OK	X			
OK OK	X	OK OK	X			
OK OK	X	OK OK	X			
OK OK	X	OK OK	X			
OK OK	X	OK OK	X			
OK OK	X	OK OK	X			
OK OK	X	OK OK	X			
OK OK	X	OK OK	X			
OK OK	X	OK OK	X			
OK OK	X	OK OK	X			
OK OK	X	OK OK	X			

Inspected by Haviland

drop test	
1	20
2	9
3	9
4	20
5	20
6	20
	98

Caliper

low	high
236	240
236	248
232	238
242	247
237	244
234	254

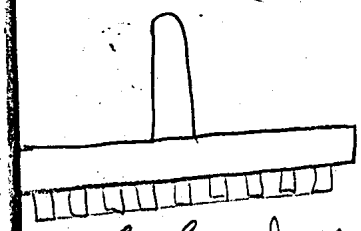
Edging Report.

Edged	O.K.	Edged Div.	
9	13	5	1
5	2	3	
3	2		1
	17		2

90% OK

1637-E

Wood disc 10 1/4 diameter with 1/2 inch soft rubber tubes 5/16 inside diam, projecting from face all over 9 3/4 inch circular area, (139 tubes)



After striking off mould in hopper this tool is vibrated up and down 60 times while rotating by hand over the mould.

Press on 1261 schedule, varnish and print regular; send all to mills — 25 made —

inspection — drop test — edging — centers seem a little soft.

all too thick —

Edging Report 56 5/8 ?

7/13/17

#1

1605-E

95.8%

The above two loads were taken from the unit entirely without notice.

1637-E

95.8% Perfect.

100 %

The above two loads were made from the same unit. The two previous were taken as a check.

7/14/17.

1638-E

FERNS

Drop Test

1. — 1
2. — 20
3. — 2
4. — 6
5. — 2
6. — 14

45 times

Coloring Report:

Edged	OK.	Welded	Mis
47.	19	21.	7
21	10	11	
11	3		8
	32		

1638-E

Make 48 blanks regular 1261 schedule except 750 pounds pressure. Varnish and print regular —

7/14/

1639-E

OK		
OK	OK	
FERNS	OK	
FERNS		
OK		
OK		
OK	OK Lay-2-3	
OK	OK	
OK		
OK	FERNS	
OK	FERNS	
	FERNS	
	FERNS	
	FERNS	
	OK	

54.3

Drop Test

1. — 20
2. — 1
3. — 1
4. — 20
5. — 1
6. — 4

47 turns

Calipers points

.233-1 .218
.224 .224.1
224.1

Edging Report

	Edged	Pts.	ReEdged	
1st Cut	18	10	7	1
2	7	5	2	
3.	2	2		
		17		1

1639-E

Make 24 blanks regular 1261 schedule except 750 pounds pressure and keep steam on 7 minutes. Varnish and print regular.

C16C

7/14/11

1640-E

OK OK	x	FERNS
OK OK	x	OK OK x
OK OK Lace 18		OK OK x
OK OK	x	OK OK x
FERNS		FERNS
FERNS		FERNS
OK OK	x	FERNS
OK OK		OK OK x
FERNS		OK OK x
OK OK	x	OK OK x
FERNS		FERNS
OK OK	x	

Drop test

1. — 20 times
2. — 2
3. — 17
4. — 20
5. — 3
6. — 1

63 times

Calipers Points

.223.1	.217
.228	.216
.222	.220

Edging Report

	Edged	Off.	Cut Edge	Dis
1 Cut	6	12	3	1
2 "		-	2	1
		12		2
				4

62.5

75% Edged.

1640-E

Make 24 blanks regular 1261 schedule except 750 lbs pressure and keep steam on for 8 minutes.
Varnish and print regular

7/15/17

1641-E

FERNS

FERNS

OK OK Sour 1

FERNS

FERNS

FERNS

FERNS

FERNS

OK OK

OK OK

FERNS

OK OK

28.5%

10 Planks marked after commencing found OK.

Drop test

1. —
2. —
3. —
4. —
5. —
6. —

California

Edging Report.

78.6% OK.

	Edged	Ok.	Re Edged	Dis
1st Cut	14	11	2	1
2nd		2	1	1
3rd			1	1

1641-E

Matri 24 planks regular 12 by schedule except 850 lbs. pressure
varnish and print - regular

L160

7/14/17

1642-E

OK OK	x	OK OK	x	Drop Test.
OK OK	x	OK OK	x	1. — 2
OK OK	x	OK OK	x	2. — 2
OK OK	x	OK OK	x	3. — 3
OK OK	x	OK OK	x	4. — 8
OK OK	x	OK OK	x	5. — 3
OK OK	x	OK OK	x	6. — 5
				23 times
OK OK	x	OK OK	x	Bailing Pins
OK OK	x	OK OK	x	.220.1
OK OK	x	OK OK	x	.219
OK OK	x	OK OK	x	.221
				.215
OK OK	x	OK OK	x	.223
				.234

100

1642-E
Make 24 blanks regular except ~~pass~~ on old schedule 1238 —

7/14/17

1643-E

OK	x	OK	x	
OK	x	OK	x	
OK	x	OK	x	
OK	x	OK	x	
OK	x	OK	x	
OK	x	OK	x	
OK	x	OK	x	
OK	x	OK	x	
OK	x	OK	x	
OK	x	OK	x	
OK	x	OK	x	
OK	x	OK	x	
OK	x			
OK	x			

100%

Drop test

1. — 2
2. — 10
3. — 3
4. — 1
5. — 20
6. — 5

48 turns

Calibres Points

.225	218
.219	2201
.221	.336.1

Edgeing Report

	Edged	Ok.	Re Edged	Disc
1st Cut	43	35	17	1
2 Cut	17	9	7	1
3 Cut	7	4		3
		38		4

88.3% Ok.

1643-E Made 24 blanks regular 1261 schedule except prep steam on for 8 minutes.

7/15/17

1644-E

OK OK x	OK OK x
FERNS	FERNS
FERNS	OK OK x
	OK OK x
FERNS	OK OK Not - 3
OK OK x	OK OK x
FERNS	FERNS
OK OK x	
OK OK x	FERNS
OK OK x	FERNS
FERNS	
FERNS	

47.6%

3 Hawks Grade rights commencing planed order.

Edging Report

90.5% OK.

	Edged	OK.	Re Edge	No.
1st Cut	21	14	5	2
2nd		5	5	
3rd				

1644-E

Make 24 blanks regular 1261 schedule except 700 lbs pressure varnish impregnant regular -

C17U

7/15/15

1645-E

OK	x	OK	x		
OK	x	OK	x		
OK	x	OK	x		
OK	x				
OK	x	OK	x		
OK Low-3		OK	x		
OK	x	OK	x		
OK	x	OK	x		
OK	x				
OK	x				
OK	x				

Drop test		Calipers per
1 —	7	.221.1
2 —	3	.227.1
3 —	10	.213
4 —	20	.225
5 —	1	.228.1
6 —	7	.221

48 times

Edging Report

80% OK

	Edged	OK	Re Edged	Disc
1st Cut	20	15	3	2
2nd Cut	3	1	2	
3rd Cut	2			2

90%

4 blanks Machine after consecutive from Cutter

1645-E

Make 24 blanks regular 1261 schedule except 700 lb pressure and steam on for 7 minutes —

1646-E

Make two blanks regular schedule out of powder that has been run thru tumbler rolls (ordinary clothes ringer)

2 Records OK for angles. Surfaces good one has a very bad Ryan Cut and could not see it.

Drop Test - 20-20

C(15)

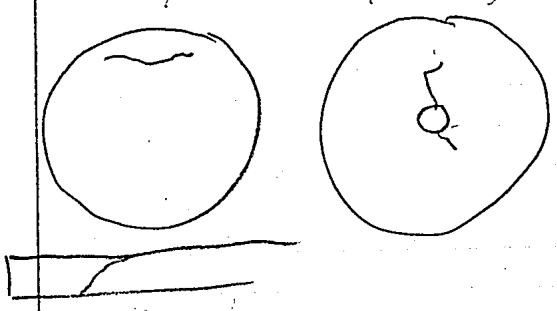
1647-E

Make two blanks out of regular soft blanks that have been ground up to fairly coarse powder — say 20 mesh.

7/14/17

1648-E		Drop test	Calipers point
OK 0K	x	1. — 20	.239.1
OK 0K	x	2. — 20	.225
OK 0K	x	3. — 20	233
OK 0K	x	4. — 20	.235.1
OK 0K	x	5. — 20	.219.1
OK 0K	x	6. — 20	.235
		120	
OK 0K	x		
OK 0K	x		
OK 0K	x		

3 Hawks cracked after coming out of oven.



Crushed, showing complete -

1648-E Duplicate of 1646-E

Only wished of making 2

Hawks will make 13

1649-E

C&O

7/15/17.

1650-E

OK OK ×
OK OK ×
OK OK ×
OK OK ×
OK OK ×
OK OK ×
OK OK differences
OK OK ×
OK OK ×
OK OK ×

100% in printing

(3 blanks Recorded) 1 for cracked crown blank
1 for marked cutter

Drop test		Calipers Point
1. —	10	.227
2. —	20	.210.1
3. —	3	.222.1
4. —	1	.221
5. —	20	.217.1
6. —	6	.224

60 times

Edgering Report.

Edged OK	Re Edged	Rec
9	4	5
5	2	3
3		3
	6	

66.6% OK

1650-E

Powder 135° F – 12 blanks –
This is regulated powder also
run the regulated wave.

8/16/47

1651-E

		Drop Test		Calipers Point
OK OK	x	1. —	14	.226
OK OK	x	2. —	15	.217.1
OK OK	x	3. —	20	.222.
OK OK	x	4. —	7	228.1
OK OK	x	5. —	1	.224.1
OK OK	x	6. —	7	.223
			64 lines	
OK OK	x			
OK OK	x			
OK OK	x			
OK OK	x			

83%

Edging Report

Edged	OK.	Re Edged	Mins
10	6	3	1
3	1	1	1
1	1		2
	8		

80% OK.

1651 Powder cold
12 blanks 50%

Stamps [illegible]
1650-E
Run the regular way.

7/15/47

1652-E

OK	x	OK	x	Drop Test		Calipers	Points
OK	x	OK	x	1.	—	20	.234.1
OK	x	OK	x	2.	—	20	.237.1
OK	x	OK	x	3.	—	15	.233.1
OK	x	OK		4.	—	16	.227.1
OK	x			5.	—	20	.243.1
OK	x			6.	—	20	.236.1
OK	x					111 turns	
OK	x						
OK	x						
OK	x						
OK	x						
OK	x						
OK	x						

100%

no fractures

7 Handles Dies applied correctly from cores.

Edging Report

60% OK

Edged	OK	Re Edge	Dis
15	8	5	2
5	1	3	1
3			3

1652-E

(123)

Make 24 blanks on old schedule except pressure 500 lbs instead of 600 lbs on blank press

7/15/17

1653-E

OK OK	x	OK OK	x	Drop test		Calipers	
OK OK	x	OK OK	x	1. —	12	.237.1	
OK OK	x	OK OK	x	2. —	20	.244	
OK OK	x			3. —	3	.241.1	
OK OK	x	OK OK	x	4. —	20	.235.1	
OK OK	x			5. —	20	.253.1	
OK OK	x			6. —	20	.246.1	
OK OK	x				95 turns		
OK OK	x						
OK OK	x						
OK OK	x						
OK OK	x						
OK OK	x						
OK OK	x						

Edging Report

36.3% OK.

	Edged	OK.	REdged	Disc
1st Cut	11	2	9	
2 "	9	1	8	
3.	8	1		7.

100% inspecting

7 blanks crackled after coming from oven

1653-E

Make 24 blanks on 1261 schedule: except assume 500 lbs instead of 600 lbs on blank press.

7/15/17.

1654-E

OK x	OK x	OK x	OK x
OK x	OK x	OK x	OK x
OK x	OK x	FERNS	OK x
OK x	OK x	OK x	OK x
OK x	OK x	FERNS	OK x
OK x	OK x	OK x	Moisture Spot
	OK x	OK x	OK x
OK x	OK x	OK x	OK x
OK x	OK x		OK x
OK x		OK x	OK x
OK x		OK x	OK x
OK x		OK x	OK

(90.9)

Drop Test

1. — 20
2. — 20
3. — 8
4. — 20
5. — 10
6. — 20

98 times

Caliper Point

.228	.224
.234.1	.222
.235.1	.222

1654-E

Marked 1605-1508 —

This is more like 1620-E tho all of the tailings are not ground. Tailings are ground when percent of fine passing thru 150 mesh screen is low it was 50% with 1605 — this was about 20% when tailings were reground. This is dried like 1508 —

7/15/17

1655-E

OK OK x	OK OK x	Drop test		Calipers point
OK OK y	OK OK x	1. —	20	.234
OK OK x	OK OK x	2. —	20	.237.1
OK OK x	OK OK x	3. —	10	.228
OK OK x	OK OK y	4. —	18	.214.1
OK OK x	OK OK	5. —	20	.214.1
OK OK x	OK OK x	6. —	4	.222.
OK OK x	OK OK x		92 times	
	OK OK			
OK OK y				
OK OK x				
OK OK y				
OK OK x				

(90.5)

4 Flasks cracked after coming from ovens

1655-E

1510 powder dried like 1508 —
Screened like 1654.

7/15/17

1656-E

OK OK x	FERNS	Drop Test
FERNS	FERNS	1. — 11
OK OK x	OK OK x	2. — 20
OK OK Lot-1	FERNS	3. — 20
FERNS	FERNS	4. — 20
OK OK x	FERNS	5. — 20
		6. — 20
FERNS	FERNS	111
OK OK x	OK OK Lot-2	
OK OK x	OK OK x	Edgeing Report
OK OK x	OK OK x	Edgd. OK. ReEdgd Disc
OK OK x	OK OK x	23 18 5
OK OK x	FERNS	5 4 1
		1 — 1
		13
		96% OK.

5-8.3

1656-E

Repeat 1639-E except in printing keep steam on 5 minutes longer and blow out press one extra time.

(1) One theory is that finer grinding makes more surface and consequently requires more rosin to stick the particles together. Reasoning on this we would expect to find that a larger proportion of chalk relative to wood flour would require more rosin.

The above does not consider the thickness of the coat of rosin on the particles. We know nothing whatever about this factor.

(2) Another theory is that the chalk is used to fill the spaces between the larger particles of wood and that the rosin is to fill the remaining spaces. If this is the true principle the grading of the particles is the most important factor.

(3) The hydrostatic pressure probably affects the fluid rosin thru surface tension before all of the spaces are filled. Some condition of the powder affecting this surface tension may be the governing factor.